CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No13/RN/CEMENT/2012-13

Date: 16.03.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. R. Niranjan,** Contractor, Bangalore.
NAME OF THE WORK	:	Providing cement concrete to Cross Roads of Ravindranagara in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 13.03.2013
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	182 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	497 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

Note:

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Job No.: CTCE/BBMP/W.No13/RN/SAND/2012-13 : 16.03.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Mr. R. Niranjan,** Contractor, Bangalore.

Name of Work : Providing cement concrete to Cross Roads of Ravindranagara in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 13.03.2013

Date of Testing : 16.03.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	87	4.35	4.35	95.7	90-100
2.36	171	8.55	12.90	87.1	75-100
1.18	519	25.95	38.85	61.2	55-90
600 Micron	492	24.60	63.45	36.6	35-59
300 Micron	367	18.35	81.80	18.2	8-30
150 Micron	234	11.70	93.50	6.5	0-10

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Job No.: CTCE/BBMP/W.No13/RN/AGG/2012-13 : 16.03.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Mr. R. Niranjan,** Contractor, Bangalore.

Name of Work : Providing cement concrete to Cross Roads of Ravindranagara in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 13.03.2013

Date of Testing : 16.03.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25400**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1028	4.05	4.05	95.95	95-100
20	16263	64.03	68.07	31.93	30-70
10	5274	20.76	88.84	11.16	10-35
4.75	2458	9.68	98.52	1.48	0-5

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Job No.: CTCE/BBMP/W.No13/RN/STEEL/2012-13

18.03.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. R. Niranjan,** Contractor, Bangalore.
Name of the Work	:	Providing cement concrete to Cross Roads of Ravindranagara in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	:	BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 13.03.2013
Date of Test	:	18.03.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	512	546	12.60	O.K	O.K
2	10	0.62	514	548	12.85	O.K	O.K

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.13/RN/CUBE/2013-14

06.05.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Shettuhalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. R. Niranjan,** Contractor, Bangalore.
Name of the work	: Providing cement concrete to cross roads of Ravindranagara in Ward No.13, Shettuhalli Sub Division, BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2012-132013-14 Dated: 13.03.2013
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.04.2013	06.05.2013	8.145	478.2	21.25
2	08.04.2013	06.05.2013	8.235	482.6	21.45
3	08.04.2013	06.05.2013	8.305	500.3	22.24

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1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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